In the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the Application.

Listing of Claims:

1.   (Previously presented) A method for modeling a system having one or more components, comprising:

(a) dividing said system into one or more components;

(b) defining a plurality of realms, wherein each of said realms contains objects representing attributes and relationships of selected ones of said one or more components, wherein said one or more components represented include at least one physical element of the system; wherein each of said plurality of realms contains at least one object common to at least two of said plurality of realms;

(c) defining associations between said plurality of realms to unify objects in said plurality of realms, wherein said associations represent an identification of said at least one object common to at least two of said plurality of realms;

(d) unifying objects in said realms based on said associations that said at least one object is common to at least two of said plurality of realms; and

(e) processing a function in a first realm of said plurality of realms independent of said other realms of said plurality of realms

(f) propagating a behavior, based on a result of said function, of one of the unified objects of said first realm to said unified object of a second realm of said plurality of realms using said at least one association between the first realm and the second realm to determine the impact of the function of the first realm in the second realm.

2.   (Previously presented) The method of Claim 1, further comprising the step of:

 combining results thereof based on said associations of said two or more realms.

3.   (Previously presented) The method of Claim 1 wherein said system is an enterprise management system.

4.   (Previously presented) The method of Claim 1 wherein said realms comprise at least one realm modeling business service components and at least one realm modeling infrastructure components.

5.   (Previously presented) The method of Claim 2 wherein the unified processing identifies infrastructure problems impacting applications, applications impacting services, or infrastructure problems impacting services.

6.   (Previously presented) The method of Claim 1 wherein said system is selected from a group consisting of: an engineering system, a distributed system, and application server system, a networked system, an optical system, a wireless network, an IP network, a layered network, a Multi-Protocol Label Switching Virtual Private Network (MPLS VPN), a messaging system, an ERP system, a dynamic system, a static system, a utility

computing system, an automatic computing system, a grid system, and on-demand

system, and an adaptive system.

7- 19. (Cancelled)

20.   (Previously presented) The method of Claim 1 wherein said system comprises a

network, and wherein said plurality of realms comprises at least one realm modeling

network infrastructure components and at least one realm modeling network security

components.

21.   (Previously presented) The method of Claim 1 wherein the step of defining a

plurality of realms is performed manually.

22.   (Previously presented) The method of Claim 1 1 wherein the step of defining a

plurality of realms is performed automatically based on given properties of said one or

more components.

23.   (Previously presented) The method of Claim 1 wherein 1 wherein the step of

defining associations is performed manually.

24.   (Previously presented) The method of Claim 1 wherein the step of defining

associations is performed automatically based on given properties of said objects.

25.   (Previously presented) The method of Claim 1 wherein the step of defining

associations comprises identifying objects in different realms representing the same

component.

26. (Previously presented) The method of Claim 25 wherein the objects in different realms are substantially identical.

27. (original) The method of Claim 25 wherein the objects in different realms are different.

28. (original) The method of Claim 27 wherein the objects in different realms have different attributes.

29. (original) The method of Claim 1 wherein step (c) comprises defining a relationship object between objects in different realms.

30. (original) The method of Claim 1 wherein said plurality of realms are defined based on selecting subsets of components in said system.

31. (original) The method of Claim 1 wherein said plurality of realms are defined based on different perspectives of the same component in said system.

32. (original) The method of Claim 1 wherein said plurality of realms are defined based on different levels of abstraction of the same component in said system.

33. (Previously presented) The method of claim 2 wherein said unified processing is selected from the group consisting of: monitoring, analyzing, control, simulation, visualization, configuration, provisioning and design of said system.

34. – 41 (Cancelled).

42.   (Previously presented) The method of claim 2 wherein said unified processing is selected from a group consisting: root cause analysis of events in said system, and correlation of events in said system.

43.   (cancelled)

44.   (Previously presented) The method of Claim 1 wherein the step of dividing said system comprises the step of:

defining said plurality of realms based on one or more models of said system or portions thereof.

45.   (Original) The method of Claim 44 wherein said realms are defined by adding associations to one or more pre-existing models of the system.

46–87. (Cancelled).

88.   (Previously presented) A computer program product in computer-readable media for modeling a system having one or more components, the computer program product comprising instructions for causing a computer to:

(a)   divide said system into one or more components wherein components include at least one physical element of the system;

(b)   define a plurality of realms including objects therein representing attributes and relationships of said one or more components, wherein said one or more components represented include at least one physical element of the system

(c)   define associations between realms sufficient to unify the realms, wherein said associations represent at least one object common to at least two of said realms;

(d)   unify objects in the realms based on said associations;

(e)   process a function in a realm independent of said other realms, and based on said process; and

(f)   propagate a behavior of one of the unified objects of one realm to said unified object of another realm using at least one association between the one realm and the another realm.

89.   (Previously presented) The computer program product of Claim 88 further comprising instructions for causing the computer to:

perform unified processing of two or more realms by performing processing in each of said two or more realms, and combining results thereof based on said associations of said two or more realms.

90.   (Previously presented) The computer program product of Claim 88 wherein said system is an enterprise management system.

91.   (Previously presented) The computer program product of Claim 88 wherein said realms comprise at least one realm modeling business service components and at least one realm modeling infrastructure components.

92. (Previously presented) The computer program product of Claim 88 wherein the unified processing identifies infrastructure problems impacting applications, applications impacting business services, or infrastructure problems impacting business services.

93. (Previously presented) The computer program product of Claim 88 wherein said system is selected from the group consisting of: an engineering system, a distributed system, an application server system, a networked system, an optical network, a wireless network, an IP network, a layered network, a Multi-Protocol Label Switching Virtual Private Network (MPLS VPN), a messaging system, an ERP system, a dynamic system, a static system, a utility computing system, an autonomic computing system, a grid system, an on-demand system or an adaptive system.

94. – 106. (Cancelled)

107. (Previously presented) The computer program product of Claim 88 wherein said system comprises a network, and wherein said plurality of realms comprises at least one realm modeling network infrastructure components and at least one realm modeling network security components.

108. (Previously presented) The computer program product of Claim 88 wherein the step of dividing is performed automatically based on given properties of said one or more components.

109.   (Previously presented) The computer program product of Claim 88 wherein the step of defining associations is performed automatically based on given properties of said objects.

110.   (Previously presented) The computer program product of Claim 88 wherein the step of defining associations comprises identifying objects in different realms representing the same component.

111.   (Previously presented) The computer program product of Claim 110 wherein the objects in different realms are substantially identical.

112.   (Original) The computer program product of Claim 110 wherein the objects in different realms are different.

113.   (Original) The computer program product of Claim 112 wherein the objects in different realms have different attributes.

114.   (Original) The computer program product of Claim 88 wherein (c) comprises defining a relationship object between objects in different realms.

115.   (Original) The computer program product of Claim 88 wherein said plurality of realms are defined based on selecting subsets of components in said system.

116.   (Original) The computer program product of Claim 88 wherein said plurality of realms are defined based on different perspectives of the same component in said system.

117.   (Original) The computer program product of Claim 88 wherein said plurality of realms are defined based on different levels of abstraction of the same component in said system.

118.   (Previously presented) The computer program product of Claim 89 wherein said unified processing is selected from a group consisting of: monitoring, analyzing, control, simulation, visualization, configuration, provisioning and design of said system.

119. – 126. (Cancelled)

127.   (Previously presented) The computer program product of Claim 89 wherein said unified processing is selected from a group consisting of root cause analysis of events in said system, and correlation of events in said system.

128.   (Cancelled)

129.   (Previously presented) The computer program product of Claim 88 wherein the step of dividing comprises defining said plurality of realms based on one or more models of said system or portions thereof.

130.   (Original) The computer program product of Claim 129 wherein said realms are defined by adding associations to said one or more models.

131. – 146. (Cancelled)

147.   (Previously presented) An apparatus for modeling a system having one or more components, the apparatus comprising:

(a)   means for dividing said system into one or more components wherein components include at least one physical element of the system;

(b)   means for defining a plurality of realms including objects therein representing attributes and relationships of said one or more components, wherein said one or more components represented include at least one physical element of the system;

(c)   means for defining associations between realms sufficient to unify the realms, wherein said associations represent at least one object common to at least two of said realms;

(d)   means for unifying objects in the realms based on said associations;

(e)   means for processing a function in a realm independent of said other realms, and based on said processing means;and

(f)   means for propagating a behavior of one of the unified objects of one realm to said unified object of another realms using at least one association between the one realm and the another realm.

148.   (Previously presented) The apparatus of Claim 147 further comprising means for unified processing of two or more realms by performing processing in each of said two or more realms, and combining results thereof based on said associations of said two or more realms.

149. (Previously presented) The apparatus of Claim 147 wherein said system is an enterprise management system.

150. (Previously presented) The apparatus of Claim 147 wherein said realms comprise one or more business service realms, one or more application realms, and/or one or more infrastructure realms.

151. (Previously presented) The apparatus of Claim 147 wherein the combined results identify infrastructure problems impacting applications, applications impacting business services, or infrastructure problems impacting business services.

150. (Cancelled)

151. (Cancelled)

152. (Previously presented) The apparatus of Claim 147 wherein said system is selected from the group consisting of: an engineering system, a distributed system, an application server system, a networked system, an optical network, a wireless network, an IP network, a layered network, a Multi-Protocol Label Switching Virtual Private Network (MPLS VPN), a messaging system, an ERP system, a dynamic system, a static system, a utility computing system, an autonomic computing system, a grid system, an on-demand system or an adaptive system.

153. – 164. (Cancelled)

165. (Previously presented) The apparatus of Claim 147 wherein said system comprises a network, and wherein said plurality of realms comprises at least one realm modeling network infrastructure components and at least one realm modeling network security components.

166. (Previously presented) The apparatus of Claim 147 wherein the step of dividing is performed automatically based on given properties of said one or more components.

167. (Previously presented) The apparatus of Claim 147 wherein the step of defining associations is performed automatically based on given properties of said objects.

168. (Previously presented) The apparatus of Claim 147 the step of defining associations comprises:

means for identifying objects in different realms representing the same component.

169. (Previously presented) The apparatus of Claim 168 wherein the objects in different realms are substantially identical.

170. (Original) The apparatus of Claim 168 wherein the objects in different realms are different.

171. (Original) The apparatus of Claim 170 wherein the objects in different realms have different attributes.

172. (Previously presented) The apparatus of Claim 147 wherein the step of defining associations comprises means for defining a relationship object between objects in different realms.

173. (Original) The apparatus of Claim 147 wherein said plurality of realms are defined based on selecting subsets of components in said system.

174. (Original) The apparatus of Claim 147 wherein said plurality of realms are defined based on different perspectives of the same component in said system.

175. (Original) The apparatus of Claim 147 wherein said plurality of realms are defined based on different levels of abstraction of the same component in said system.

176. (Previously presented) The apparatus of Claim 148 wherein unified processing is selected from the group consisting of: monitoring, analyzing said system.

177. (Original) The apparatus of Claim 148 unified processing comprises analyzing said system.

178. – 184 (Cancelled)

185. (Previously presented) The apparatus of Claim 148 wherein unified processing is selected from a group consisting of: root cause analysis of events in said system and correlation of events in said system.

186. (Cancelled)

187. (Previously presented) The apparatus of Claim 147 wherein the step of dividing comprises means for defining said plurality of realms based on one or more models of said system or portions thereof.

188. (Original) The apparatus of Claim 187 wherein said realms are defined by adding associations to said one or more models.

189– 319. (Cancelled)